

REFTONE

CHECK YOUR SOUND!

LD-10 Woofer Replacement Instructions

INTRODUCTION

If you do not have experience with electronic repairs or soldering, please read through and follow the directions closely and also view the online instructional videos on Reftone.com/support/ld10 or call the support department at +1 888 339 0006. The most important thing to remember is: if you heat the terminal too long, the heat will travel to the voice coil and could damage it. When creating a strong soldered connection, you don't heat the solder-you slightly heat the terminal, which easily melts the solder. When the solder melts and dries on the terminal and speaker wire, it bonds the wire to the terminal which completes the analog connection.

PREPARATION

1. Clear an area for a clean workspace and organize your tools.
2. Plug in solder iron- it takes approximately 5 minutes to heat up.
3. Disconnect speakers and lay them down with the woofers facing up.

INSTALLATION

1. Remove all (4) screws from existing woofer, collect screws and set aside.
2. Tilt woofer so the terminal posts are exposed and easy to reach.
3. Secure the woofer within the opening of the speaker. (figure 3a)
4. Use the solder iron to heat the left terminal for 2 seconds, until solder softens and then remove the positive (red) wire. Repeat the same process for the right side terminal and the negative (black) speaker wire. Remove the old woofer and set to the side. (figure 4a)
5. Unbox the new LD-10 replacement woofer and pay special attention to the terminal connection on the speaker. You will see the (+) and (-) terminals Identified by their symbols on the non-conductive terminal plate. (figure 5a)
6. Identify the larger terminal on left is positive (red wire) and right side is smaller and negative (Black wire). (figure 6a)



figure 3a



figure 4a

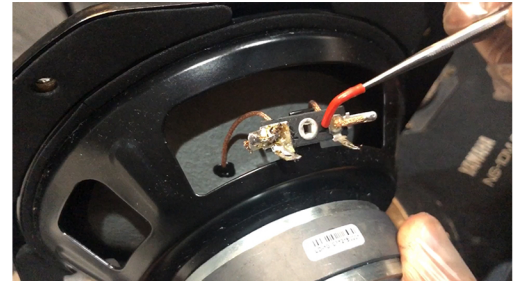


figure 5a

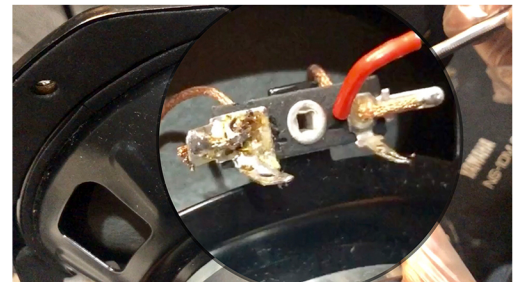


figure 6a



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7. Tilt and secure the fresh LD-10 woofer within the opening of the speaker and bring the speaker wires out for easy access.
8. Thread the end of each speaker wire approximately 2mm through the hole of the proper terminal. Add the clip to the top of the terminal to create the heat sink. (figure 8a & 8b)
9. Heat the terminal for 2 seconds. At the same time, add solder over the speaker wire coming through the terminal opening. The solder will melt quickly and cool down; allow 10 seconds to dry. (figure 9a)
10. Place newly connected LD-10 woofer in position.
11. Use the existing (4) screws to secure the new LD-10 woofer into place making sure to use an even number of turns to secure the driver in place.
12. Repeat steps 1-11 for the other speaker.



figure 8a



figure 8b

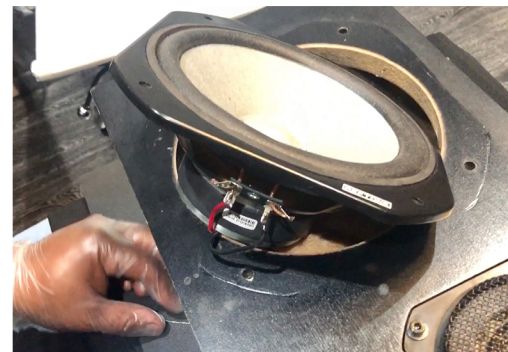


figure 9a

CALIBRATION

After successful installation, the next step to calibrate the speakers is the "Burning In" process. It's a technique that helps break the woofers in and introduce the components to each other. Some websites suggest they will "break in" by setting up the speakers and using them for a short period of time. However, here's our shortened "Burning In" method for you to try:

1. Face the speakers towards each other together, parallel and 2"-3" inches apart
2. Playback audio continuously at a low nominal level (about 70 dB) for about 40 minutes
3. After speakers are "burned in" place your monitors at their appropriate positions (6-7 feet apart) and set your gain for your work area